



UNIVERSITY OF
TORONTO

REACHING OUT
Engaging girls in science
and non-traditional
students in learning —
pages 8 - 9

JANUARY 13, 2009 62nd year, number 10

the Bulletin

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President's Message

I hope that you had a restful and enjoyable holiday. With some trepidation, given the clutter in everyone's busy lives, I am taking this opportunity to provide a brief update on two fronts — the current fiscal climate — and the extraordinary collective achievements by members of the University of Toronto over the last few years. The juxtaposition of those topics is deliberate: the university clearly faces some economic headwinds in the year ahead, but we do so with substantial academic momentum.

Challenges in 2009

The economic forecast remains guarded. As has already been reported, recent turmoil in the financial markets — the likes of which we have not seen since the 1930s — will severely limit the university's ability to draw on endowment revenue. The endowment was slated to pay out \$62 million in April of this year. Part of our endowment strategy involves building up a funding cushion so that payouts can still be made when there is a moderate downturn in the markets. The massive decline in the equity markets, however, has eliminated that cushion. While markets have made a modest recovery from the low points reached in November, they are still clearly volatile. We must therefore continue to prepare for a situation where the scheduled endowment payout is either markedly reduced or foregone for the year.

I want to address, again, the rationale for not eroding accumulated capital to make these payouts regardless of income earned. These endowments were put in place for the very long haul. Erosion of capital would immediately change the baseline for future growth in our endowed funds. It would thereby compromise our ability to return rapidly to usual payout levels as the investments supporting our endowments recover their value. Prudence in managing the endowment is accordingly part of the responsible stewardship of funds that were designed to support the university's faculty, staff and students for generations to come. Meanwhile, the divisions of the university are all planning actively to ensure that, if usual endowment payouts cannot be made, they will still be able to meet critical commitments such as endowed professorships and chairs, as well as endowed support for needs-based student aid.

On that point, I must thank our benefactors for their response. Naturally, donors share our concerns about the possibility of reduced payouts on endowed funds. However,

• • • PRESIDENT'S ON PAGE 6

TO A SWEET 2009



Aldeli Albán Reyna, an undergraduate student in women and gender studies, Italian and Spanish, serves up treats at University College's Diablos' café.

DIANA MCNALLY

Five named to Order of Canada

BY AILSA FERGUSON

Three U of T faculty members are among the 60 new appointments to the Order of Canada, this country's highest civilian honour for lifetime achievement.

The appointments of Professors **Michael Baker** of medicine and **Paul Garfinkel** of psychiatry and Professor Emeritus **Henry Regier** of ecology and evolutionary biology were announced by Governor General Michaëlle Jean Dec. 30. As well two alumni, **Allan MacEachern** and **LaVerne Kindree**, were also appointed to the order.

Named a member of the order, Baker is cited for his contributions to health-care in Canada, notably his work in

developing an innovative, integrated medical care program for cancer patients and for his leadership in the area of infectious disease control. His original research over a 25-year period has produced an important body of work that has improved our understanding of human leukemias and other cancers. His approach has been to combine fundamental observations in the laboratory with clinical studies to help explain some of the unique features of these malignant diseases. He holds the Charles H. Hollenberg Chair in Medicine as physician-in-chief at the University Health Network, one of the university's fully affiliated teaching hospitals.

Garfinkel, president and chief

• • • FIVE ON PAGE 4

Salaries for senior administrators frozen

BY ELAINE SMITH

Given the uncertain economic times and the financial pressures being felt by the university, senior administrators have shown leadership by suggesting and accepting a salary freeze.

"I am grateful to these administrative colleagues for their commitment to the university," said President David Naylor in a memo issued Dec. 15. "I also want to thank all our faculty and staff for their continued efforts to ensure that our great institution successfully weathers the economic downturn and is set to move ahead rapidly as financial circumstances improve."

While increases for 2008-09 have already taken effect, there will be no standard across-the-board or merit increases in 2009-10 for the president,

vice-presidents, vice-provosts, principals, deans and senior administrative staff in the professionals and managers employee group at levels eight and nine, such as assistant vice-presidents.

"Our leaders are setting the tone for what promises to be a difficult period fiscally," said Professor Angela Hildyard, vice-president (human resources and equity), "and it is indicative of the dedication shown by our staff and faculty year in, year out. It's what makes the University of Toronto such an outstanding institution and an excellent workplace."

The university, like many businesses and governments, anticipates facing ongoing financial pressures in the coming year, and Naylor has asked the university community to work collaboratively to contain expenditures.

LETTER FROM THE EDITOR

Happy New Year!

We hope you've all returned refreshed and ready to tackle the tasks that lie ahead.

As you'll note in reading the president's message (pages 1, 6 and 7), "the university clearly faces some economic headwinds in the year ahead, but we do so with substantial academic momentum." Indeed, as the president points out, despite the economic climate, the University of Toronto continues to provide the excellent leadership and scholarship it always has. Our fair institution has seen serious travails of all kinds in its nearly two centuries of existence, including wars and the Great Depression, and it has not only endured, it has flourished.

One need only flip through the pages of this issue to see examples of the excellence we consistently achieve, no matter what budgetary challenges are placed in our paths. On page 1, we celebrate inductees to the Order of Canada, while page two provides a recitation of recent awards garnered by faculty and staff. The faculty research highlighted on page 5 is only a small sample of the amazing work that takes place in our labs and offices day in, day out, while our efforts at engaging non-traditional students is evident in our centre spread (pages 8-9).

And it's not only faculty and staff who shine; read about the upcoming library live-in (page 3) and you'll see the kind of commendable commitment to helping those less fortunate that is characteristic of our student population.

So, let's take heart. We have weathered far greater storms than today's economic downturn and not only survived, but sparkled. Now that's a tradition worth preserving!

Regards,

Elaine

Elaine Smith

Editor

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the Bulletin

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The top and sidebar art on the front page is composed of photographs of Diablos', a student-run café located in University College's Junior Common Room.



FACULTY OF APPLIED SCIENCE & ENGINEERING

Professor Andreas Mandelis of mechanical and industrial engineering is the recipient of the 2009 Yeram S. Touloukian Award of the American Society of Mechanical Engineers. Presented triennially, the award recognizes outstanding technical contributions to the field of thermophysical properties. Mandelis was cited in part for his seminal theoretical work in the shaping of thermal-wave sciences and associated thermophysical instrumentation and measurement technologies. He will receive the award during the symposium on thermophysical properties June 21 to 25 in Boulder, Colo.

FACULTY OF ARTS & SCIENCE

Professor Adam Anderson of psychology is the winner of the 2009 American Psychological Association Distinguished Scientific Award for Early Career Contribution to Psychology in the area of behavioural and cognitive neuroscience. The award is considered one of the most prestigious awards in psychology and is an "outstanding accolade for scientific achievement." Based in Washington, D.C. and boasting approximately 148,000 members, APA is the largest association of psychologists worldwide.

FACULTY OF DENTISTRY

Professor Barry Sessle, leader of one of the world's most important laboratories in pain and trigeminal sensory-motor interaction, was awarded an honorary doctorate by Aalborg University in Denmark in October. The citation noted Sessle's reputation as the world's leading expert in the field of orofacial sensory-motor interaction and pain, as evidenced by the long list of research awards and honours he has received over the years and his long list of publications. He was also honoured for his significant contributions to the mentoring of numerous students and research trainees and for playing leadership roles in academia and scientific organizations.

AWARDS & HONOURS

FACULTY OF MEDICINE

Professor Anthony Graham of medicine is the recipient of the Heart of Gold Award of the Heart and Stroke Foundation of Ontario. The award is given to honour volunteers who have demonstrated loyalty and service to the Heart and Stroke Foundation of Ontario through contributions of time, talent, material and ongoing financial resource support.

U OF T MISSISSAUGA

Professor Valentin Blomer of mathematical and computational sciences is this year's winner of the André Aisenstadt Mathematics Prize awarded by the Centre de recherches mathématiques (CRM) in Montreal to recognize outstanding research by a young Canadian mathematician in pure or applied mathematics. Blomer's research focus is analytic number theory, in particular the theory of quadratic forms as well as automorphic forms and L-functions, which translate arithmetic or geometric information into analytic information. Blomer will receive the award at a ceremony to be held March 20 at the CRM.

Professor Scott Prosser of chemical and physical sciences is the 2008 winner of the Research Excellence Award. The teaching award winner in the faculty category was **Professor Alison Syme** of the Centre for Visual and Media Culture, while winners in the teaching assistant category were **Teresa Lobalomo** of language studies, **Thottakad Radakrishnan** of chemical and physical sciences and **Andres Suarez** of biology. **Dianne Robertson**, undergraduate adviser and assistant in the Department of English and Drama was the winner of the Staff Service Award. The teaching awards recognize winners for their ability to influence students' intellectual development, accessibility, superior communications skills and mastery of their subject areas. The research award recognizes work that has had a relevant and sustained impact while the staff award acknowledges service exceeding job parameters and efforts that have led to improvements at the university.

COMPILED BY AILSA FERGUSON

Five elected to American Academy for Advancement of Science

BY JENNY HALL

Five U of T researchers have been elected to the American Association for the Advancement of Science (AAAS), the world's largest general science society and publisher of the prestigious journal *Science*.

They are:

- **Professor Grant Allen** of chemical engineering and applied chemistry, cited for the use of biological processes to treat air emissions and wastewater and for service to the profession of chemical engineering.
- **Professor Brendan Frey** of electrical and computer engineering, cited for contributions to genomics research and to the field of information processing and

machine learning.

- **Professor Laura-Ann Petitto** of psychology at U of T Scarborough, cited for contributions to the understanding of human language, including bilingualism and sign language, using behavioural and neuroscience techniques.
- **Professor Emeritus Mary Jane Phillips** of chemical engineering and applied chemistry, cited for service to the engineering profession and for her role as a pioneering woman and mentor to women engineers.
- **Professor Christopher Yip** of biochemistry and the Institute for Biomaterials and Biomedical Engineering, cited for contributions to biophysical science and

bioengineering, particularly single-molecule biophysics and for contributions to bioengineering education.

AAAS was founded in 1848 and has been admitting fellows since 1874. Fellowship is a prestigious honour, granted for meritorious efforts to advance science, and fellows are elected by their peers.

"I'm delighted that five of our faculty members were elected this year," said **Professor Paul Young**, vice-president (research). "Fellowship in the AAAS is one of the most prestigious a scientist can be awarded. My congratulations to all the new fellows."

The association will honour this group Feb. 14 at its annual meeting in Chicago.



This is one of a series of transit ads promoting the International Year of Astronomy.

Astronomy ads make debut on Toronto transit vehicles

BY APRIL KEMICK

University of Toronto astronomers are giving the sun, the moon and the stars to riders of Toronto public transit (the TTC) this month with a series of high-impact ads that promote the celestial science as part of 2009's International Year of Astronomy.

Three thousand of the colourful, thought-provoking ads will appear in buses, subways and streetcars as part of an innovative campaign to make the other-worldly science more relevant to Earth dwellers.

"The cosmos is not something that's untouchable or far away," said campaign organizer **Ray Jayawardhana**, Canada Research Chair in observational astrophysics and an associate professor at the University of Toronto. "It's all around us and we're intimately connected to it.

So we want to remind people about those connections as we kick off the International Year of Astronomy."

The new transit ads draw clear links between the science of astronomy and everyday life. One highlights the fact that our days are getting longer thanks to tides caused by the moon, while

"WE'RE TRYING
TO BRING
ASTRONOMY
INTO THE DAILY
CONVERSATION..."

PROFESSOR
RAY JAYAWARDHANA

another points out that a small fraction of television static is actually caused by the afterglow from the origin of the universe, otherwise known as the big bang. The same designs also feature in 50,000 bookmarks, to be distributed at a variety of astronomy outreach events throughout the year. The TTC ads and the bookmarks all point to a website — **www.coolcosmos.net** — that will explain the interesting science behind them through podcasts and lively articles.

"We're trying to bring astronomy into the daily conversation, to foster science as an integral part of human culture," Jayawardhana said. "We also want to share with everyone the excitement of world-class astronomy research happening right here in Toronto at places like U of T's Dunlap Institute for Astronomy and Astrophysics."

DeLaval to return as football coach

BY MARY BETH CHALLONER

The Varsity Blues football program looks toward building on the past year's success, naming interim head coach **Greg DeLaval** as an athletic instructor and head coach of the Varsity Blues football program effective Jan. 1, 2009.

Serving as interim head coach for the 2008 season, DeLaval helped end the longest losing streak in Canadian Interuniversity Sport (CIS) history. He led the previously 0-49 Blues to their first win in seven seasons and guided the team to a record of 2-6, recording his first CIS victory in his first game as the Blues bench boss Sept. 1, defeating the Waterloo Warriors, 18-17, in a thriller at Varsity Centre.

He recorded his second win Sept. 13, as the team beat the York Lions 58-7 to reclaim the coveted Argo Cup.

"Greg is the right fit," said **Liz Hoffman**, director of athletics. "He has displayed his commitment and leadership both on and off the field. His vision and direction for the football program builds on the momentum he helped create this past season. I believe the program will continue to grow under his leadership as the team

prepares for off-season training in the Varsity Dome."

Prior to his successful return to the Blues in 2008, DeLaval served as full-time assistant coach during the 2003 through 2005 seasons, coaching special teams and receivers. Holder of a master's degree in education, he also received accolades for his teaching in the faculty's undergraduate BPHE program and will have teaching responsibilities in his new appointment.

He also spent two CIS seasons (2006-07) as the special teams co-ordinator and offensive assistant for the University of Calgary Dinosaurs.

"The Varsity Blues football program has entered an era of unprecedented change and challenges," stated DeLaval. "I believe that progressive thinking, innovation and creativity will be necessary to build a nationally prominent football program here at U of T. The great part is that the administration, alumni and Varsity Blues family have demonstrated that they feel the same way. I invite anyone to our campus to see for themselves that this is a football program with world class facilities, within a world class institution in a world class city."

U of T pension update

This article first appeared in the eBulletin Dec. 16.

Given the downturn in the economy and the accompanying media coverage, staff and faculty members may be wondering about their pensions.

Members of the University of Toronto pension plans can rest assured that the University will fulfil its commitment to their pensions.

The University of Toronto has a defined benefit pension plan. A defined benefit plan provides pension benefits on the basis of defined percentages applied to salary and years of service.

Members and the university both provide funding, but the university guarantees the ultimate pension benefit. The commitment is a legal one, ensuring that no matter whether the plans earn surpluses or deficits each year, the university is legally obligated to pay the required pensions to its retirees.

The pension plans' assets, which arise from employee and employer contributions

and from net investment earnings, are not considered university assets. They are kept in separate trusts, have their own financial statements and are audited annually by external auditors. The funds are invested through the University of Toronto Asset Management Corporation (UTAM), a wholly owned, separately incorporated investment management subsidiary of the university, staffed by investment professionals with high levels of expertise in managing a broadly diversified portfolio. UTAM, in turn, is overseen by a board composed of investment experts and this board reports regularly to Business Board.

Again, employees enrolled in the university's pension plan can be confident that the university will fulfil its commitment to their pensions.

For more information about U of T pension plans, please visit **www.finance.utoronto.ca**.

Students live-in for literacy

BY ANJUM NAYYAR

Two U of T students will be camping out at Robarts Library this month as part of Live-in for Literacy 2009, DREAM (Discover the Reality of Educating All Minds).

Christopher Somma, a third-year architecture student, and **Rebecca Nugent**, a fourth-year student studying history and English, are part of a nationwide effort that will see students pitching tents inside the lobbies of libraries at seven universities across Canada: Memorial University of Newfoundland, University of Toronto, Concordia University, McMaster University, Queen's University, Laurentian University and the University of British Columbia. The event starts Friday, Jan. 16 at 1 p.m. EST and runs until Monday, Jan. 25 at 1 p.m. EST. They aim to raise \$40,000

coast to coast to construct nine school libraries in India through Room to Read, a world-renowned charity that builds educational facilities in developing countries. It's the first time U of T is taking part in the event.

"On a scale of one to 10... my anticipation is about a 12. This is truly an amazing cause and words cannot even describe how incredible it feels to be a part of it," Nugent said.

Library staff are as enthusiastic about the event as the participants.

"When I heard about it, I thought what a great idea," said Carole Moore, U of T's chief librarian. "Literacy is so important for everybody in terms of succeeding in the world and we're delighted to support this student initiative."

The students will be on the ground floor of Robarts and must remain in the library 24

hours a day, with only five minutes of every hour permitted for bathroom or other necessary breaks. Other students will pitch in by bringing Somma and Nugent food and other supplies as needed.

"It's not easy missing classes and living in a roped-off area for 10 days" said John MacDonald, DREAM co-chair and a past camper, "but it's a lot easier than the lives of the children we're helping. They don't have a library to read in, let alone live in – so with the help of Room to Read and all of Canada, we're building them nine."

In the past four years the event has raised \$50,000 to help build a computer lab in Cambodia and nine school libraries in Nepal. This year's event will be broadcast live via webcam 24 hours a day at **www.liveinforlit.com**.

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Five named to Order of Canada

CONTINUED FROM PAGE 1

executive officer of the Centre for Addiction and Mental Health, was appointed an officer, the second-highest level within the order. Recognized for his contributions to the field of mental health, Garfinkel is a nationally and internationally renowned psychiatrist, researcher, academic leader, hospital administrator, humanitarian and advocate. He was president and psychiatrist-in-chief of the Clarke Institute for Psychiatry and chair of the U of T's psychiatry department from 1990 to 2000. As a researcher, most of his more than 150 peer-reviewed scientific papers relate to eating disorders; his work in the 1970s and 1980s made Toronto one of the world leaders in this field.

Regier, named a member of the order, was honoured for

his contributions to the development and implementation of ecosystem management to protect freshwater fisheries, particularly in the Great Lakes, and for his leadership in national and international organizations concerned with environmental conservation. Regier served as a Canadian commissioner on the Great Lakes Fishery Commission from 1980 to 1989 and on the Great Lakes science advisory board of the International Joint Commission of Canada and the U.S. from 1987 to 1990. His research interests include the Great Lakes, human use of aquatic systems, world population and climate change.

Kindree was appointed a member of the order for his commitment and dedication to the community of Squamish, B.C., as a health care practitioner, volunteer, philanthropist and leader for

more than 50 years.

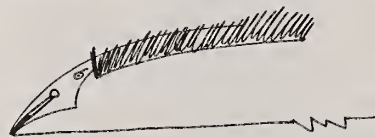
MacEachern, named an officer, was honoured for his highly distinguished career of public service, both as a long-serving senator and as a cabinet minister, where he played key roles in instituting important changes to national health, pension and social security policies.

"It's gratifying to see, yet again, that our faculty members and alumni figure prominently among new appointments to the Order of Canada," said President David Naylor. "On behalf of the University of Toronto community, I extend warmest congratulations to these outstanding individuals."

Founded in 1967, the Order of Canada is the centerpiece of Canada's honours system and recognizes outstanding achievement and service in various fields of endeavour.

WE VALUE YOUR OPINION

that's why the back page of *the Bulletin* is devoted to Forum, a place where thoughts, concerns and opinions of interest to colleagues across the university find expression. Original essays by members of the community are both welcomed and encouraged. Faculty, staff and students are invited to submit or discuss ideas with:



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Look forward to hearing from you!

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Male field crickets prepare to engage (left), then use their mouthparts to grapple.

Crickets use mouths, not bats, in competition

BY GEOFF THOMAS

Observing and betting on cricket fights has been part of Chinese cultural tradition since at least the Sung Dynasty (960-1278). This ancient practice has resulted in a detailed list of characteristics that Chinese practitioners think make for champion fighters.

"Because money was involved, there was a strong incentive for the practitioners of this sport to observe their cricket fighters closely," said **Kevin Judge**, a biology post-doctoral researcher at U of T Mississauga.

Interestingly, an 800-year-old Chinese text mentions that the best cricket fighters have the largest heads. In nature,

male field crickets fight one another over territories and access to potential mates by using their pointed and pincer-like mouthparts as weapons. In a study published in the December 2008 issue *PLoS ONE*, a journal of the Public Library of Science, Judge and co-author **Vanessa Bonanno** show that, indeed, males with larger heads and mouthparts are more successful in fights with smaller-headed rivals. They also show that male field crickets have larger heads and mouthparts than females, which "makes sense given that female crickets don't fight over mates," Judge said.

Field crickets, a diverse group of insects distributed around the globe, have been important subjects for

researchers interested in studying the evolution of animal aggression and the settlement of contests between individuals. For all that study, the influence of heads and mouthparts as weaponry has been largely overlooked in field crickets, unlike their close allies, the New Zealand weta, Judge said.

The study by Judge and Bonanno "tested theories of contest settlement and sexual selection and how body shape has evolved to help males in competition with other males," said Judge. By examining weaponry, this NSERC-funded study provides a new avenue by which researchers can understand aggression in field crickets, he added.

Relaxed trade rules boost African development

BY KEN MCGUFFIN

Often thought to be hobbled by corruption, poor infrastructure and a weak financial system, African exporters rose to the opportunities presented by a U.S. trade liberalization policy, a recent University of Toronto study has found.

The African Growth and Opportunity Act (AGOA) of 2000 dropped duty charges on thousands of products for the 42 sub-Saharan countries that qualified. The act was found to be directly responsible for a "surprisingly large" 28 per cent increase in imports in key product categories, the study by U of T economists **Garth Frazer** and **Johannes Van Biesebroeck** shows. Apparel saw the biggest boost, with a four-fold increase in imports of products in one of the highest duty categories. The AGOA also brought more foreign investment to eligible sectors.

The gains were sustained and even increased after the

expiry in 2005 of the Multi-Fibre Arrangement (MFA), an export quota system for developing countries. It was expected Chinese apparel imports would replace African imports as a result, but the biggest impact on U.S. imports from AGOA countries

"It signals that when African countries are given the benefit of lowered barriers to the U.S. market, they are able to take advantage of it."

PROFESSOR GARTH FRAZER

occurred in the two years after the MFA expired.

The findings suggest that previous studies about barriers to African trade have overlooked the negative effect of tariff restrictions, blaming low exports on internal problems instead of external obstacles. While the U.S. is a single importer of African products, it is a large importer, so the

authors find this single U.S. policy had the impact of increasing overall African non-oil exports by 6.6 per cent. They also find that this was not the result of either a decrease in African exports to Europe or a significant decrease in imports from non-AGOA countries into the U.S.

The impact of AGOA was felt even though the tariff changes were modest in several categories, especially agriculture. "It signals that when African countries are given the benefit of lowered barriers to the U.S. market, they are able to take advantage of it," said Frazer of the Rotman School of Management, who teaches international trade and development economics. "Were there continued trade liberalization with African countries, they should be able to benefit further."

The complete study is available at: www.rotman.utoronto.ca/newthinking/africatrade.pdf.

U of T physicists first to 'squeeze' light to quantum limit

BY KIM LUKE

A team of U of T physicists has demonstrated a new technique to squeeze light to the fundamental quantum limit, a finding that has potential applications for high-precision measurement, next generation atomic clocks, novel quantum computing and our most fundamental understanding of the universe.

Krister Shalm, Rob Adamson and Professor Aephraim Steinberg of physics and the Centre for Quantum Information and Quantum Control published their findings in the Jan. 1 issue of *Nature*.

"Precise measurement lies at the heart of all experimental science: the more accurately we can measure something, the more information we can obtain. In the quantum world, where things get ever smaller, accuracy of measurement becomes more and more elusive," explained PhD student Shalm.

Light is one of the most precise measuring tools in physics and has been used to probe fundamental questions in science. But light has its limits in the world of modern quantum technology.

The smallest particle of light is a photon and it is so small that an ordinary light bulb emits billions of photons in a trillionth of a second.

"Despite the unimaginably effervescent nature of these tiny particles, modern quantum technologies rely on single photons to store and manipulate information. But uncertainty, also known as quantum noise, gets in the way of the information," Steinberg explained.

Squeezing is a way to increase certainty in one quantity such as position or speed but it does so at a cost. "If you squeeze the certainty of one property, the uncertainty of another complementary property inevitably grows," he said.

In the U of T experiment, the physicists combined three separate photons of light together inside an optical fibre to create a triphoton. "A strange feature of quantum physics is that when several

identical photons are combined, as they are in optical fibres such as those used to carry the Internet to our homes, they undergo an 'identity crisis' and one can no longer tell what an individual photon is doing," Steinberg said.

The authors then squeezed the triphotonic state to glean the quantum information that was encoded in the triphoton's polarization. (Polarization is a property of light which is at the basis of 3D movies, glare-reducing sunglasses and a coming wave of advanced technologies.)

In all previous work, it was assumed that one could squeeze indefinitely, simply

tolerating the growth of uncertainty in the uninteresting direction. "But the world of polarization, like the Earth, is not flat," said Steinberg.

"A state of polarization can be thought of as a small continent floating on a sphere. When we squeezed our triphoton continent, at first all proceeded as in earlier experiments. But when we squeezed sufficiently hard, the continent lengthened so much that it began to 'wrap around' the surface of the sphere," he added.

"To take the metaphor further, all previous experiments were confined to such small areas that the sphere, like your home town, looked as though it was flat. This work needed to map the triphoton on a globe, which we represented on a sphere providing an intuitive and easily applicable visualization. In so doing, we showed for the first time that the spherical nature of polarization creates qualitatively different states and places a limit on how much squeezing is possible."

"Creating this special combined state allows the limits to squeezing to be properly studied," Adamson said. "For the first time, we have demonstrated a technique for generating any desired triphoton state and shown that the spherical nature of polarization states of light has unavoidable consequences. Simply put: to properly visualize quantum states of light, one should draw them on a sphere."

President's Message to the U of T Community

• • • CONTINUED FROM PAGE 1

many have expressed support for the university's strategy, including appreciation for our contingency planning to cover key commitments using internal funds if necessary. We have also had donors come forward with new annual gifts to help bridge-fund personnel and projects supported by their endowed benefactions or to support areas of urgent needs, such as entrance scholarships and bursaries for our students. To say the least, their generosity and loyalty has been both inspiring and very encouraging.

The status of the endowment is our most acute financial concern — one that should be self-limited as the world economy stabilizes and investment performance improves. However, as noted previously, the level of government per-student grants in support of our core operations is also uncertain. Caps on government transfers to universities may exacerbate

our budget pressures by several million dollars. Should this come to pass, the impact will vary across divisions. Divisions also vary in their reliance on payouts from endowed funds and in the amount that they contribute to the university's overall fiscal balance. In these circumstances, any across-the-board budget reductions may have perverse or unfair effects. Similarly, our hope is to avoid a general hiring freeze for 2009-10. Instead, each division of the university, including the central administrative divisions, will be expected to contain costs using measures most appropriate to its specific circumstances.

I should add that the provost continues to review each university division's budget plans with division heads to assess the division's prospects of achieving budgetary balance. In this regard, while savings must be realized in operating costs wherever feasible and reasonable, and while all divisions are expected to use 'rainy day funds' to

the fullest extent possible to navigate this stormy period, we must also be measured in our responses to what is likely to be a medium-term budget crisis. We are certainly not encouraging deficit finance by divisions, but that may be a necessary short-term measure in some cases. As a result, it seems unlikely that we can bring the university's budget to the balance planned for this year in accordance with our fiscal cycle. This is a matter that I and other members of the executive group will be continuing to discuss with governors of the university.

It is perhaps worth remembering that though these are difficult times everywhere, the University of Toronto is faring as well or better than many of its peer institutions across Canada and, indeed, throughout North America. As well, the higher-education sector in general has so far been spared some of the massive restructuring confronting other sectors of the economy.

Last, a university president has no special expertise in economic prognostication and I cannot predict the duration of this downturn. Some pundits expect the current fiscal crisis to continue for at least 18 months, but then again, few of these same pundits foresaw the current trouble! Thus, we must simply wait and see how fast the economy recovers. While the timing of a recovery is uncertain, two things are clear. First, there will indeed be a recovery. And second, thanks to the excellence of our faculty, staff, students, alumni and friends, we shall weather this storm successfully.

members of our community, and the indicators are very encouraging indeed.

Publications and Citations

We continue to attract excellent students because we continue to recruit and retain excellent faculty and staff. One measure of the excellence of our community is its collective scholarly output. Across a staggering range of disciplines — including many more than those mentioned in **Figure 1** — the University of Toronto is one of the leading research universities in North America. Only Harvard publishes a greater number of scholarly papers. Put simply, from the standpoint of overall excellence in scholarship, no post-secondary institution in Canada is close to the University of Toronto.

Rankings

Omnibus rankings of universities continue to be generated by various media outlets and agencies, just as questions continue to be raised about the basis of the various metrics and combinations thereof that are compiled and published.

The issue, of course, is not the need for rigorous assessment and disclosure of discrete dimensions of performance, but rather the "tossed salads" of measures served up annually to those seeking — with apologies to Menck — simple answers to complex questions.

Among those specific measures of performance that we have long taken seriously is assessment by academic peers. While peer-review surveys have their own limitations, such surveys can shed some useful light on how a university's scholars are perceived by others in the same field. *The Times Higher Education Supplement* (THES), for example, ranks U of T 41st in the world according to its "tossed salad" of criteria. But when the THES asked the scholars at different universities to rank each other, our peers placed us ninth in the world — and top among Canadian universities. In fact, the University of Toronto is one of only five universities peer-reviewed in the top 16 in every field considered by the THES. The other four were Berkeley, Oxford, Cambridge and Stanford.

Figure 2 shows some of the most recent rankings of research-intensive universities.

Awards and Honours

Our students and faculty represent the University of Toronto with distinction. **Figure 3** shows that our faculty, in particular, win far more awards and prizes than would be expected given the size of our professoriate. It is also striking to see U of T's faculty celebrated at a higher rate internationally — where the competition is fiercest — than they are at home where the Canadian predilection for "peanut butter" regionalism may be tempering meritocratic peer review.

Figure 1
Summary of Rankings for the University of Toronto, 2003–2007
Canadian peers (G13), AAU public institutions and all AAU institutions

	G13 (Canada)		AAU Publics		AAU All	
	Publications	Citations	Publications	Citations	Publications	Citations
All Science Fields	1	1	1	3	2	5
Health and Life Sciences	1	1	1	2	2	4
Cell Biology	1	1	2	3	5	9
Materials Science, Biomaterials	1	1	1	3	2	6
Biotechnology and Applied Microbiology	1	1	7	6	12	11
Engineering	1	1	6	9	8	12
Nanoscience and Nanotechnology	1	1	17	17	24	28
Optics	1	1	3	2	8	13
Environmental Engineering	1	1	2	1	2	1

Figure 2
Rankings of Research-Intensive Universities

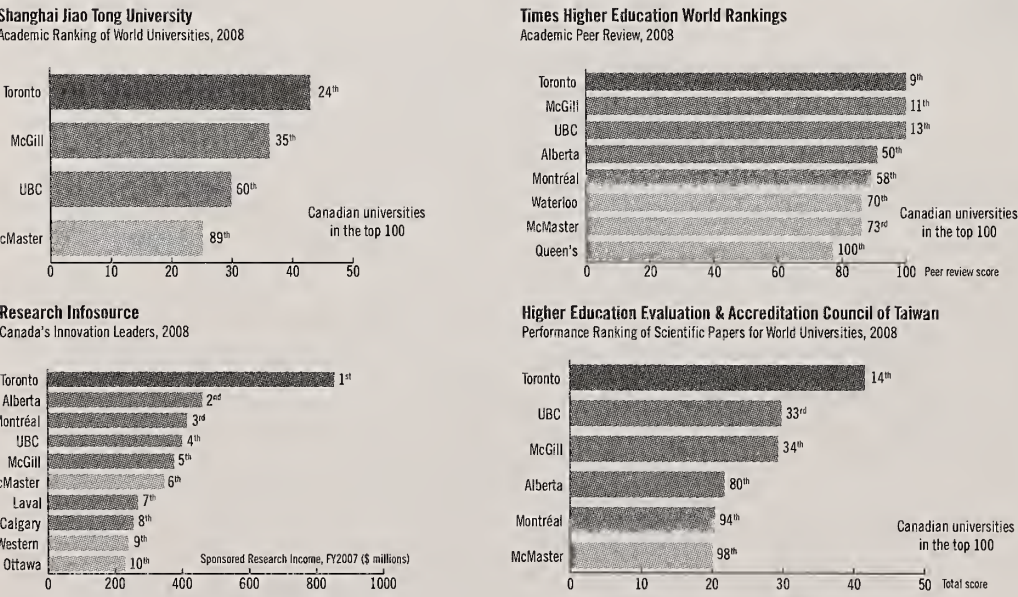


Figure 3
Faculty Honours by Award, 1980–2008
University of Toronto Compared to Awards Held at Other Canadian Universities

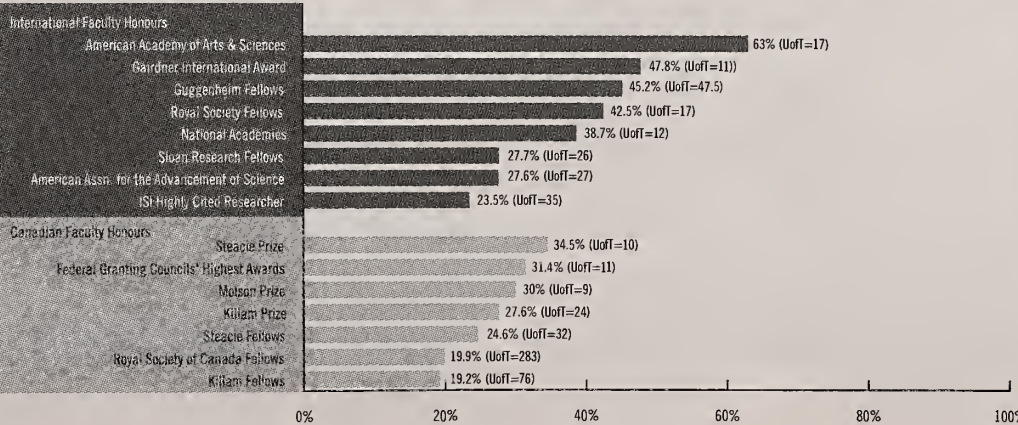


Figure 4

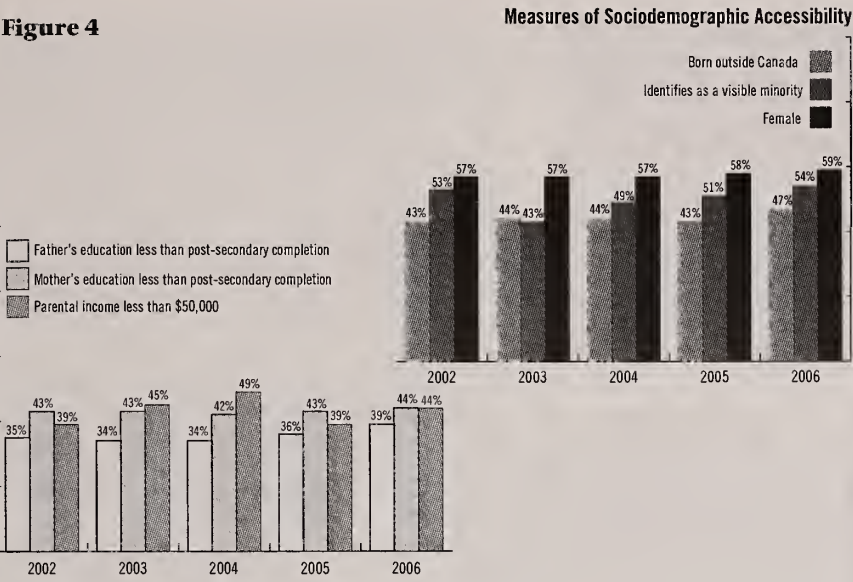
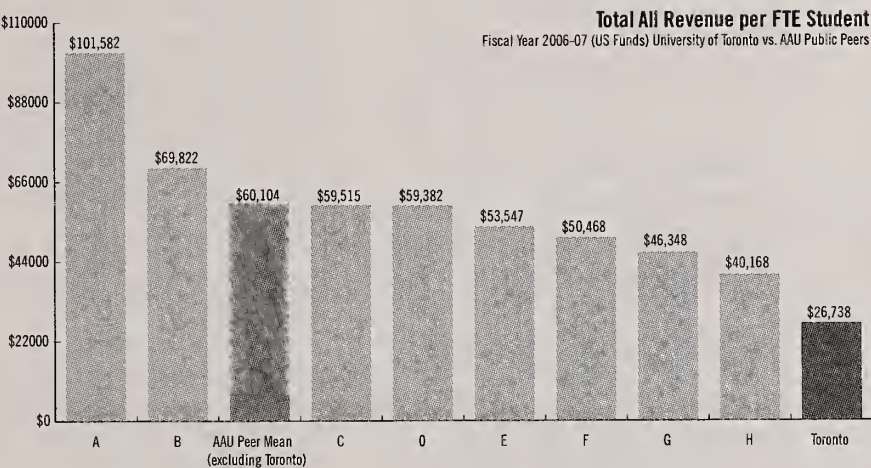


Figure 5



Access and Student Aid

One of the distinguishing features of the University of Toronto is the extent to which it has sustained access to outstanding educational opportunities — inside and outside the classroom — for the best and the brightest students regardless of means. Our campuses are among the most ethnoculturally diverse in the world and more than 40 per cent of our undergraduate students report a combined family income of less than \$50,000 a year. In fact, U of T contributes more than twice the provincial average to student bursaries and financial aid. Governing Council has also committed the university to the following policy: no student offered admission to a program at the University of Toronto should be unable to enter or complete the program due to lack of financial means. This com-

mitment is particularly important for the next year or two, as the recession will compromise the finances of some of our students and their families.

As **Figure 4** shows, we have an enviable record of success in sustaining access to excellence. The Government of Ontario deserves huge credit for enhancing OSAP eligibility under its 2005 Reaching Higher plan for higher education. However, the university's ongoing success in maintaining access would simply not have been possible without increased revenues from tuition, because we continue to draw heavily on tuition revenues for needs-based bursaries.

The Faculty of Law at U of T offers compelling lessons in this regard. Currently, about half our JD students apply for internal student aid. The faculty is able to help in a major way, thanks to tuition revenues. In fact, 16 per cent of all students in the JD program receive bursaries that offset at least 50 per cent of their tuition fees

and 33 students are paying no tuition fees this year.

Funding: An Acute and Chronic Challenge

Our current financial circumstances are frustrating in part because they represent an intensification of long-standing challenges. **Figure 5** compares the university's per-student funding with our public peers among research-intensive universities in the United States. U of T receives less than half the mean per-student funding available to our peers. **Figure 6** is more striking. It shows the dramatically higher per-student funding available to the private universities in the U.S. I should emphasize, in fairness, that the levels of per-student funding for U.S. private universities include endowment returns generated before the crash of 2008 and that the per-student resources available do not necessarily reflect those typically spent in a given year. Although the differences in funding are large, the scholarly footprint of U of T is strongly competitive in width and depth with all these great private universities.

Drawing comparisons closer to home, notwithstanding the McGuinty government's praiseworthy Reaching Higher plan, the educational grants per student available for Ontario's universities remain more than 25 per cent below the average funding available to university students in the other nine provinces. The missing money, unfortunately, is tied to long-standing imbalances in fiscal federalism. This fall, Don Drummond, chief economist of the TD Bank, has estimated that Ontario unfairly gave up \$11.848 billion in 2005. In essence, Ontario's taxpayers and students are underwriting higher education in other provinces. The federal government has fortunately agreed to a number of positive changes in shared-cost social programs, but implementation of these reforms to fiscal federalism is slated to take several years.

These observations highlight that we have a continuing and major advocacy challenge. **Figure 7** shows that, until recently, Ontario's real per-student

funding of higher education had been falling over many years. In contrast, Ontario's per-capita spending on healthcare and per-student spending on K-12 education has tracked much closer to national benchmarks. We must encourage the Ontario government to maintain and augment its investments in higher education, research and innovation. And we must also encourage the federal government to accelerate its rebalancing of fiscal federalism while enhancing its support for research, innovation, student aid and university infrastructure. The ultimate beneficiaries will be future generations of students through enhanced access to a positive, personalized and well-rounded university experience.

Great Stories — and a Great Future

Given the serious funding gap that has continued for two decades, it is truly remarkable that the University of Toronto has emerged as one of the world's great public universities. Ours is not so much a uniquely Canadian success story as a continuously cumulating collection of success stories. By many measures, the institution's academic fabric has never been stronger. So it is that while 2009 will bring ongoing financial turbulence and some difficult decisions, I am confident that, in the longer run, the University of Toronto will continue to excel. That confidence, in turn, reflects an extraordinary record of success attributable to the talent, commitment and creativity of our faculty, staff, students, alumni and friends. In the circumstances, I consider it a continuing privilege to be part of our university community.

Best wishes for 2009 — and thanks for your varied contributions to the University of Toronto.

Sincerely,

David Naylor

Figure 6

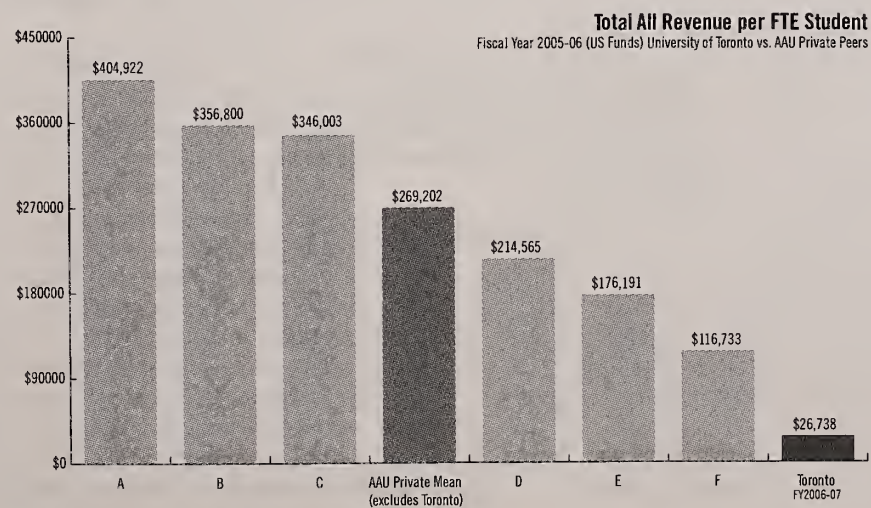
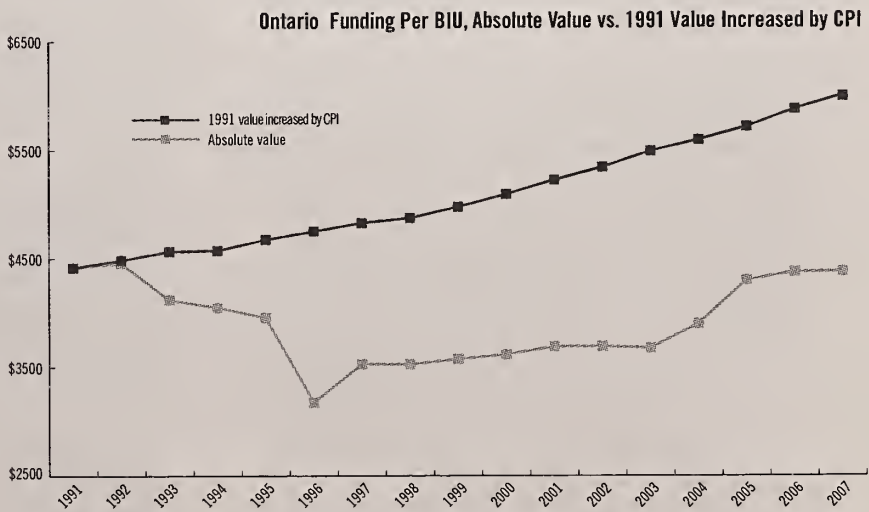


Figure 7



To view this document with links and references included, visit www.news.utoronto.ca/bulletin/EBULL/ebulletin01-08-09.html

REACHING OUT

U of T fosters passion for education, science

HIGH SCHOOL GIRLS GET CHANCE TO ROCK SCIENCE WORLD AT U OF T

BY ANJUM NAYYAR

Instead of pressing the snooze button in bed on a Saturday morning, 70 high school girls get up and come to the St. George campus to learn about life on Mars, climate change and what chaos is and how scientists study it. It's part of an exciting and unique weekend science program called Girls Rock Science, offered through the Faculty of Arts and Science. It's designed to inspire and excite girls about the physical sciences.

"Female enrolment in the physical sciences is traditionally lower than for

other areas such as life sciences. The national average is roughly 35 per cent, compared with close to 65 per cent for life sciences. In some disciplines like physics, computer science and some engineering programs we're even lower," said **Nicola Woods**, associate director (student recruitment) for the Faculty of Arts and Science.

Even though statistics show the majority of undergraduates enrolled at university are women, it seems they are still not well-represented in physical sciences and engineering at universities in Canada or in the workforce. In fact some Canadian statistics show women

earn just one fifth of science and engineering PhD's in Canada.

"In terms of faculty members we have very few female ones in geology. If you just look at the roster most of them are still male," said Professor **Charly Bank** of geology, originator of Girls Rock Science.

The program offers an alternative to the traditional high school extracurricular experience. Launched in 2007, it helps to empower girls to excel in science. The eight-week program introduces girls from grades 9 through

"The female students are really interested, they ask questions, they are curious, they're the kind of students I want in my class."

PROFESSOR CHARLY BANK

12 to physical science disciplines that are shaping the world we live in — from climate change to planetary science.

The teens are given a first-hand look at the latest research taking place in U of T's departments of geology, geography, physics and chemistry. Female professors lead workshops, discussions and hands-on research activities created to help girls succeed in the physical sciences. Session titles have included: Heavy Metals in Biology, Beyond the Men in Black, Climate Change in the Canadian Arctic and Chaos. In the latter workshop, Professor Sabine Stanley of physics presented the group with real world examples of chaotic systems such as weather and planetary orbits.

In its pilot year, 2007, Girls Rock

Science had 70 students. This year there is a waiting list for all eight sessions; each has a one-hour lecture and a hands-on exercise.

"The female students are really interested, they ask questions, they are curious, they're the kind of students I want in my class," Bank said. "It really enriches what they learn in school because they get information about the latest research. They also get advice about university life."

The workshops take place on select Saturday mornings on the St. George campus. Each session is limited to 20 students who are admitted on a first-come, first-served basis. There is no cost to participate.

One high school student, **Megha Rao**, jumped at the opportunity to participate.

"My science teacher showed us a brochure of this program and told us that it was very interesting and helpful," said Rao, who enrolled in the Metals in the Environment workshop. "I'm not sure exactly what my career goals are, but I'm looking towards lines in science and geography."

"The goal of Girls Rock Science is to introduce high school girls to emerging areas of physical science and to encourage them to pursue these disciplines at the post-secondary level," said **Farheen Hasan**, liaison officer for the office of student recruitment in the Faculty of Arts and Science.

Female professors or PhD candidates interested in conducting a workshop should contact Professor Charly Bank at bank@geology.utoronto.ca or 416-978-4381.



George Vanier Secondary School students Sara Halawa (left) and Isabela Ronquini de Sousa take part in one of the Girls Rock Science sessions.

SOCIAL STATUS AFFECTS POST-SECONDARY EDUCATION CHOICES

BY ANJUM NAYYAR

Universities like U of T can offer great depth and breadth of experience to students looking for a place to call home base after high school. But there are many factors in play when high school students assess their options for higher education these days.

Where will they go, what degree will they choose and why? Those are the central questions guiding the research of Professor **Ann Mullen** of sociology at U of T Scarborough. She explores how students make decisions at each major educational crossroads and then make sense of their own positions in the hierarchy of higher education. Her work traces the connections between post-secondary choices and experiences and socioeconomic status and gender.

In her recent research, Mullen took a close look at the educational experiences of undergraduate students at

two American universities: 50 students at Yale, an elite, Ivy League university, and 50 students at Southern Connecticut State University (SCSU), a moderately selective public university. She asked students questions about their high school experiences, how they decided to go to university and how they chose an institution. She then focused on their academic and extracurricular activities during university and job aspirations and plans to continue education beyond the bachelor's degree.

Mullen, who received her PhD at Yale, found that even though the two institutions in her study were less than two miles apart, student experiences were worlds apart. Students attending Yale come mostly from highly privileged backgrounds, while half the students at SCSU come from families where neither parent had attained a bachelor's degree.

"The students that went to Southern Connecticut generally had been disengaged with their high school experiences and learning in general had become a chore to them. I found that troubling. In contrast, about half of the Yale students went to elite private high schools so they came from incredibly enriched learning environments where they almost couldn't help but do well."

Her research reveals not only the way social background influences how students do academically but also how they view their education.

"These differences contribute to gender inequalities in the labour market. Even with the same amount of education, men still get jobs with better pay and higher status."

PROFESSOR ANN MULLEN

"Students who are the first in their families to go to university generally approach education from a practical, applied perspective. They want concrete skills that will prepare them for specific occupations. Privileged students more often view their education from a liberal arts perspective, appreciating learning for its own sake, in part because they are more likely to go into a graduate or professional program after their bachelor's."

She also said despite progress made by women when it comes to education, there are still significant gender divides at universities.

"Even though women are now the majority of undergraduates in both countries, the fields that men and women choose continue to differ dramatically.

These differences contribute to gender inequalities in the labour market. Even with the same amount of education, men still get jobs with better pay and higher status."

Based on her research, she said much of the motivation to expand higher education in the U.S. and

Canada has been based on notions of equity of access and ensuring avenues for social mobility. However, these efforts alone can't rectify social inequality.

"On one hand, getting a four-year degree is the best way of guaranteeing you're going to get ahead. But in the U.S. the education system has expanded radically over the last half-century and yet levels of social inequality haven't changed much. There are limitations

DID YOU KNOW?

As of 2006, women's participation in professional positions in the natural sciences, engineering and mathematics fields had increased only two per cent in two decades.

The proportion of women enrolled in Canadian undergraduate engineering programs has steadily declined since 2002; enrolment peaked at 20.7 per cent in 2001 and was 17.5 per cent in 2005.

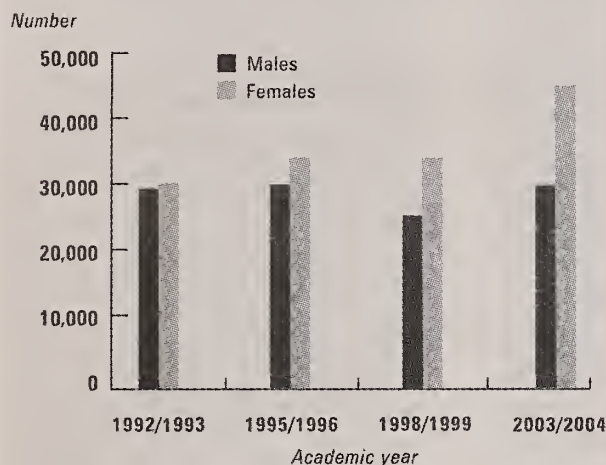
Source: www.actew.org/pwp

University of Toronto Undergraduate Degrees Awarded

	1996			2006		
	Female	Total	% Female	Female	Total	% Female
Humanities	851	1,296	65.7	1,424	2,207	64.5
Social Sciences	1802	2,964	60.8	3,115	4,748	65.6
Physical Sciences	311	1,181	26.3	584	1,745	33.5
Life Sciences	1,457	2,320	62.8	1,163	1,759	66.1
Unspecified Arts & Science	87	164	53.0			
Total	4,508	7,925	56.9	6,286	10,459	60.1

Source: U of T Office of Government, Institutional and Community Relations

Canadian university undergraduate enrolment in physical and life sciences and technologies, by sex



Source: Statistics Canada, CANSIM table 477-0013



U of T Scarborough sociology professor Ann Mullen

to expansion of higher education as a means for ameliorating social inequalities. The name of the university on your diploma makes a huge difference."

Mullen said the types of students admitted and their focus has an impact on the university; U of T is a perfect example.

"In the five years I've been here, the Scarborough enrolment has grown by about 25 per cent," she said. "Because most students from high socioeconomic status backgrounds are already going to university, enrolment growth mostly draws in students from less privileged backgrounds. These students tend to want a more applied education, often creating a tension between the liberal arts aims of the institution and the goals of the students."

Mullen's research will be published by Johns Hopkins University Press in a new book due out later this year.



COURTESY OF SUSAN MARTIN

Participants in the Transitions program at St. Michael's College generally experience post-secondary success.

IT'S COOL TO STAY IN SCHOOL: ST. MICHAEL'S COLLEGE PROGRAM REACHES OUT TO TEENS

BY ANJUM NAYYAR

"Most days on campus I have to pinch myself so that I know I'm not dreaming."

That's how **Susan Martin** feels about her job with high school students in the Transitions program at St. Michael's College, a college whose history of social and intellectual outreach dates back to the 1930s. The U of T alumna, a teacher from J. Clark Richardson Collegiate, a public school in Ajax, spearheaded the school's Transitions program, which helped students at risk of dropping out of high school to complete their credits on a post-secondary campus. She was the first member of her family to go to university and is thrilled about U of T opening its doors to others like her.

"The Transitions students are what I lovingly refer to as 'bad-ass geeks': they will out-geek the traditional achiever in terms of having a hunger for knowledge and an intellectual curiosity that they come by naturally; however, they have difficulty conforming to school rules," Martin said. "Very often school isn't connected to a world they imagine for themselves because their parents may not have graduated from high school. Certainly they don't imagine a post-secondary pathway that includes college or university."

Transitions moved to St. Michael's College in 2005 through hard work. The program, one of the few in Canada aimed at underachievers with promise, takes up to 14 students per module and selection is done through an interview. The schedule is a rigorous one with each student required to start class at 9 a.m. If a student misses more than two classes a month, he or she is released from the program.

"For all intents and purposes they become like U of T students," said **Mark McGowan**, principal of St. Michael's College. "I think this program works because it takes them out of a social environment and peer pressure of one kind and places them in a learning environment where they are forced to take responsibility for their own learning."

Martin said the program is tailored to the student to allow a balance between course materials and the student's own interests. Each student currently attends classes on campus Monday to Thursday from February to June.

"Our timetable includes English, English media, political science, an interdisciplinary credit in international human rights and additional credits that they work on independently in order to graduate," she said. "At the end of the semester they must create a thesis project that addresses a concern they have about the human condition; that thesis is defended in a 30-minute interview with their classroom teacher."

Students earn certificates in one of St. Michael's four programs: celtic studies, Christianity and culture, book and media studies and medieval studies. But doing so requires discipline. Martin said there are no bells or faculty telling students when to move from

one classroom to another and they are free to do assignments based on their interests in a subject area.

"I can't even begin to explain to you how you really become who you are in this program," said **Kassandra Arsenault**, one of the first graduates of the program, now a second year student at St. Mike's. "I was impacted by the individuality of it. As a result it brought up my grades."

Arsenault ran away from home in Grade 12 after her parents divorced and she dropped out of school in Ajax. When she heard about the program she jumped at the chance to apply and eventually graduate from high school. She said the experience was life-altering.

"I'm the oldest person in my family and no one in my family has gone to university and I didn't know what it was like," Arsenault said. "You suddenly see a different part of life. High school is very structured and you can't really explore things you are interested in. This program is so unique in that it is not structured to that degree."

Martin said the program has helped many students over the years and is very successful. Of the original 12 high school students enrolled in the first Transitions program in 2006, 11 graduated — three as Ontario Scholars, one returning to St. Mike's as a full-time student. In the 2007 class, one student is now attending U of T, one is at York, one is at

Carleton and one is at Trent. Two are attending Durham College, two are attending George Brown College and one is attending Fleming College.

Martin said she has learned a great deal from her students with whom she still keeps in touch — more than 60 former students.

"Once again it enriches my life. With the first class I created what became known as 'the postcard club.' When I travelled during school vacations I would send them each a postcard from wherever. Even tough kids love to get mail."

She recounts one story that is particularly moving.

"I first met this student when she was expelled in Grade 9 following a fight. She disappeared for a few years and then came back and asked to be admitted to the school when she was 17 years of age. At that time she was raising her 2-year-old daughter alone; she had been working independently to get high school credits but she wanted to get into the program so that she could graduate on time and move on to community college."

"Today she is completing her first year at university after completing a community college diploma. She is on the honour roll. Her daughter is entering elementary school and both are doing well. She hopes to attend U of T to become a social worker and I will do what I can to help her with that dream. She is a descendant of a slave who settled in Nova Scotia following the American Revolution; she is the first woman in her family to obtain a high school diploma and the first post-secondary student in her family. She has tremendous drive and her story is very inspiring."

Supporting Sudan's peacekeepers

Deployment to Sudan was an opportunity of a lifetime and an interesting challenge

BY MARK PHILLIPS

Little did I know that on a very rainy April morning in 2007 when my phone rang at my Mississauga home just before 7 a.m. that the person calling from Khartoum, Sudan, would be offering me what would become an "opportunity of a lifetime." The team calling to interview me that day was from the United Nations Mission in Sudan (UNMIS). They were a world away since it was, in fact, already 3 p.m. Sudan time when they called me.

My eventual deployment to Sudan as an international civilian staff member with the UN's Department of Peacekeeping Operations (www.un.org/depts/dpko/dpko/index.asp) was in early February 2008. I took a six-month leave of absence from my regular full-time employment and only returned home to Canada this past August. The posting I accepted was that of chief, General Supply Unit.

Before arriving in Sudan I undertook an intensive 10 days of UN peacekeeping induction training at the United Nations Logistics Base, located in Brindisi, Italy. Then after completing the required Sudan-specific training, including an intensive advanced security-in-the-field program at UNMIS HQ in Khartoum, I flew to my deployment located at the UNMIS Logistics Base in the



Mark Phillips and his Sudanese colleagues oversaw supplies for the UN in El Obeid.

city of El Obeid, ideally situated in the centre of Sudan.

My responsibilities as chief, General Supply Unit required managing warehousing and distribution operations for the entire mission, including providing direction and leadership to hundreds of staff at the logistics base, as well as staff located at the six UNMIS regional distribution points.

Apart from continual concern for my own safety, there were two personal challenges while in Sudan. They were the daily high temperatures which remained relentlessly above 40 C and the widespread presence of malaria.

My personal task was to provide logistics solutions to ensure the effective distribution of peacekeeping supplies and equipment into the hands of the more than 9,000 UNMIS international peacekeeping troops,

including the Canadian Forces "military observers" in the field with Canada's Operation Safari. The logistics base houses more than \$300-million in assets and expendable items, totalling 10,000 line items.

There were, and remain, many logistical challenges to getting supplies to these end users, which now exclude those deployed in the Darfur region. With the unique constant and dire needs of Sudan's Darfur region, a separate mission specifically for Darfur was started in late 2007, making Sudan the only location in the 60 years of UN peacekeeping to have two missions located in one country.

The main challenges to the UNMIS (www.unmis.org) supply chain were:

1. The sheer size of the country: It is the largest country within the continent

of Africa and shares borders with no less than nine other countries. It is approximately one-quarter the size of the United States, making efficient transportation of goods a huge undertaking.

2. With 11,000 km of roads in Sudan still mined, combined with the annual rainy season causing many roads in the South to be virtually impassable for often months on end, frequently the transport of warehoused items by UN cargo flights is the only viable option.

3. The Sudanese government constantly delaying supplies from getting into the country via ship through Port Sudan (located on the Red Sea), resulting in many hundreds of UNMIS sea containers often sitting for months at a time and kept in quarantine for none other than political reasons.

The largest and most successful project I co-ordinated by far while working for UNMIS was a "warehouse wide" complete physical inventory at the UNMIS Logistics Base. We located, counted and verified 90 per cent of the asset and expendable items from the four commodity warehouse units. Some of these items had never been inventoried before. Our results made a huge difference in locating stock in El Obeid.

Two highlights of my tour were: Having the opportunity to both work and share ideas with local Sudanese and international staff from all over the world as we helped restore peace in one of the world's poorest and currently most war-torn countries. Plus, having small, often barefoot, Sudanese children wave to me as I travelled to and from work in my UN vehicle. This always brought a smile to my face and made me proud to be a Canadian with a unique opportunity to make a difference.

Mark Phillips is a professional logistician (P.Log.) and has been certified by the Canadian Professional Logistics Institute since 1997. He has a bachelor of arts from the University of Guelph and currently is employed by the University of Toronto as the logistics manager at the U of T Library's high-density storage facility in Downsview.

COURTESY OF MARK PHILLIPS



Suzie Schwalm

Born Jan. 25, 2008

Daughter of Tara Black & Luke Schwalm

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- 2 part-time undergraduate students
- 2 graduate students

1 Administrative Staff

3-year term from July 1, 2009 to June 30, 2012

5 Teaching Staff

3-year term from July 1, 2009 to June 30, 2012:

- Faculty of Arts and Science (Departments of Art, Classics, East Asian Studies, English, French, Germanic Languages and Literatures, Italian Studies, Linguistics, Near and Middle Eastern Civilizations, Slavic Languages and Literatures, and Spanish and Portuguese)
- Faculty of Arts and Science (Departments of Anthropology, Economics, Geography, History, Philosophy, Political Science, Psychology, Sociology, and Centre for the Study of Religion)
- Lawrence S. Bloomberg Faculty of Nursing, Leslie Dan Faculty of Pharmacy, Faculty of Dentistry, and the Faculty of Physical Education and Health
- Faculty of Medicine
- University of Toronto at Scarborough

Nomination Forms will be available beginning

12:00 noon, Friday January 09, 2009 at:

- www.governingcouncil.utoronto.ca/elections.htm
- Office of the Governing Council
- Simcoe Hall, 27 King's College Circle, Room 106

Work of the Governing Council:

The Governing Council is composed of 50 members – 25 members from within the internal University community, including administrative staff, teaching staff and students, and 25 members external to the University, including alumni and Lieutenant-Governor-in-Council appointees.

As the University of Toronto's senior governing body, it oversees the University's academic, business and student affairs. Decisions approved by the Governing Council affect all members of the University community.

Council and its Boards approve:

- Campus and student services
- Major changes in academic programs and units
- Policies on admissions and awards, tuition and ancillary fees, research, and grading practices
- Multi-year budget guidelines and capital plans
- Resource allocation in support of the University's priorities
- Appointment of senior administrators
- Acquisition and/or disposal of assets

The membership of the Governing Council should reflect the diversity of the University. Nominations are encouraged from a wide variety of individuals.

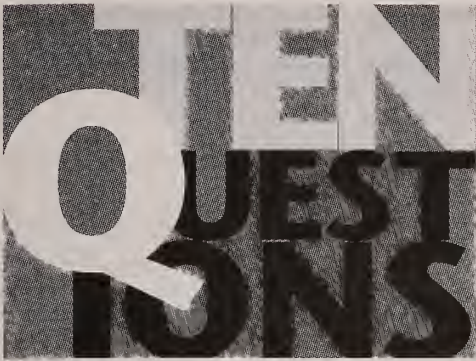
Questions? Please contact:

Nancy Smart, Chief Returning Officer at: nancy.smart@utoronto.ca or 416-946-7663 or

Mae-Yu Tan, Deputy Returning Officer at: maeyu.tan@utoronto.ca or 416-978-8794 or

Alison Webb, Deputy Returning Officer at: alison.webb@utoronto.ca or 416-978-8427

Further information, including the *Elections Guidelines, 2009* can be found at: www.governingcouncil.utoronto.ca/elections.htm



Professor Paul Young, vice-president (research)



Professor Paul Young is also Keck Chair of Seismology and Rock Mechanics. He came to the University of Toronto in 2002 from the University of Liverpool.

1. As chair of the Department of Civil Engineering you led the development of the framework for urban engineering, "building cities that work for people." Please explain what this means.

Cities reflect our civilization; they are the engines of the modern economy and they are where 80 per cent of Canadians live and work. Urbanization is a phenomenon that has been playing out world-wide for more than two centuries and shows no sign of stopping. The world of the 21st century is going to be an urban one and how we deal with urban issues will directly determine the quality of our lives.

Civil engineers plan, design, build, operate and maintain the infrastructure that provides physical definition to the urban habitat including buildings and roads. This infrastructure also makes social and economic interactions within the urban habitat possible through transportation and communication systems and directly affects physical health and ecological balance within the urban system through drinking water, air quality and waste treatment. The built environment is far more than an assembly of physical building blocks. It directly affects each and every person every day in a variety of ways, including their health and safety, their social interactions, their economic well-being and their esthetic experience of their surroundings. A fundamental need for civilization in the 21st century is the development of urban habitats that are both environmentally sustainable and function for people and society: namely urban engineering. The Department of Civil Engineering, through its

teaching and research, is educating the next generation of engineers with this vision.

2. In your research you study rock fractures. Why is this important?

Fracturing contributes to seismic behaviour, mechanical properties and fluid flow and is important in the understanding of fundamental geologic processes such as volcanoes and earthquakes and engineering applications such as mining, petroleum and the management of groundwater and radioactive waste. I have a unique laboratory that allows my research group to simulate stress and temperature conditions deep in the Earth and generate small laboratory earthquakes that we use to image the growth of fractures using geophysical methods. ...we listen to cracks grow and use the sounds from multiple receivers to analyse the physics of the fracturing process.

3. You know a lot about rocks, but do you like to rock and roll? Do you prefer classic rock or heavy metal?

I prefer classic rock over heavy metal but my musical taste is eclectic depending on time of day and mood. I have an extensive collection of early music and polyphony with a particular fondness for the works of Palestrina, William Byrd and the Tallis Scholars on a weekend

morning, which evolves into classic rock with Dire Straits and the like by early evening. My music goes everywhere with me on my iPod.

4. If you could take any undergraduate course at U of T right now, what would it be?

Philosophy.

5. Your best memory from your years as a university student?

One-on-one discussions with brilliant professors and Friday night.

6. If you could be anywhere in the world right now, where would it be?

Away from snow!

7. One thing you want to do that you haven't accomplished yet?

To take it easy!

8. What book is on your bedside table?

Einstein's Mistakes: The Human Failings of Genius by Hans C. Ohanian — a Christmas present from my son Chris.

9. Where did you grow up?

Near Liverpool, England, during the Beatles era.

10. Sailboat or yacht and why?

Anything that floats and gets me on the water is great by me and I have a passion for sailing.

COMPILED BY
TAMMY THORNE

BURSAR VICTORIA UNIVERSITY

in the University of Toronto

The Bursar is the chief financial and administrative officer of the University, responsible to the President, and has general supervision of the administrative and financial affairs of the University, including its ancillary enterprises.

This position will become available in June 2009. Victoria University seeks an accomplished senior administrator, preferably with experience in an academic institution. The detailed posting is available at

<http://www.vicu.utoronto.ca/about/hr/postings.htm>.

Applications and nominations to:
Ms. Gillian Pearson,
Office of the President, Victoria University,
73 Queen's Park Crescent, Toronto ON M5S 1K7,
or vic.president@utoronto.ca.

The closing date for applications is 9 February 2009.

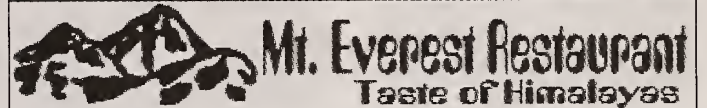
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2009 GRAHAM LECTURE

Kim Vicente

Department of Mechanical and Industrial Engineering
University of Toronto

The Human Factor

Wednesday, January 21

4:30 p.m.

Room 140, University College
15 King's College Circle
University of Toronto

Members of the faculty, staff, students
and the public are cordially invited.

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Visiting scholars to U of T with children, pets may be interested to rent a detached bungalow. Walking distance to subway, 20-minute ride to St. George campus and teaching hospitals. Call 416-239-0115, ext. 3.

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nished. Personal attention to your needs. 416-920-1473. www.celebritycondoservices.com

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Large, light-filled furnished Edwardian house near High Park, 3 bedrooms including large master, study and TV room, renovated kitchen and bathroom. 20 minutes to U of T, walk to Roncesvalles shops. Available early January to around June 20. \$2,200/month including utilities and biweekly cleaner. 416-533-3150, tom.hurka@utoronto.ca

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Bloor/Dovercourt. Lovely, furnished 3-bedroom, 2-bathroom house. January to May 2009 (flexible). Centrally located, 4 minutes to subway, 15 minutes to university. Two parks 2 blocks away. One block from Bloor Street. \$1,800 month +. No students. 416-516-0888; mlevine7@uwo.ca

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Going on a Sabbatical? www.SabbaticalHomes.com (est. 2000) is the online directory of sabbatical home listings for academics visiting Toronto or temporarily leaving. Find or post accommodations to rent, exchange or sit at www.SabbaticalHomes.com

• Guesthouse •

Guesthouse, walk to U of T. Kitchen, laundry, deck, A/C, wireless Internet, cable TV, coffee and tea. Singles with shared bath from \$65/night. Private bath \$85 per night per person. Breakfast available, three-night minimum stay. Tel: 416-588-0560. E-mail annexguesthouse@canada.com; web: annexguesthouse.com

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Dr. Neil Pilkington (Psychologist). Assessment and individual, couples and group cognitive-behaviour therapy for: anxiety/phobias, depression/low self-esteem, stress and anger management, couples issues and sexual identity/orientation concerns. Staff/faculty health-care benefits provide full coverage. Morning, afternoon and evening appointments. Downtown/TTC. 416-977-5666. E-mail dr.neil.pilkington@rogers.com

Psychotherapy for personal and relationship issues. Individual, group and couple therapy. U of T extended health plan provides coverage. For a consultation call Dr. Heather A. White, Psychologist, 416-535-9432, 140 Albany Avenue (Bathurst/Bloor). drhwhite@rogers.com

Evelyn Sommers, Ph.D., Psychologist, provides psychotherapy and counselling for individuals and couples from age 17. Covered under U of T benefits. Yonge/Bloor. Visit www.ekslibris.ca; call 416-413-1098;

Individual psychotherapy for adults. Evening hours available. Extended benefits coverage for U of T staff. Dr. Paula Gardner, Registered Psychologist, 114 Maitland St. (Wellesley and Jarvis). 416-570-2957.

Dr. Cindy Wahler, Registered Psychologist. Yonge/St. Clair area. Individual and couple psychotherapy. Depression, relationship difficulties, women's issues, health issues, self-esteem. U of T extended healthcare plan covers psychological services. 416-961-0899. cwahler@sympatico.ca

Dr. Carol Musselman, Registered Psychologist. Psychotherapy for depression, anxiety, trauma and other

2009 Awards OF EXCELLENCE

THE UNIVERSITY OF TORONTO ALUMNI ASSOCIATION (UTAA) IS PLEASED TO WELCOME NOMINATIONS FOR THESE AWARDS.

FACULTY AWARD

A \$1,000 prize recognizing excellence in teaching, research and professional endeavours.

CAROLYN TUOHY IMPACT ON PUBLIC POLICY AWARD

A \$1,500 award honouring excellence in teaching, research and the impact of scholarship on public policy.

CHANCELLOR'S AWARD

Two \$1,000 prizes for outstanding contributions by administrative staff. The Emerging Leader award will recognize a staff member who demonstrates potential to assume more senior leadership. The Influential Leader award will recognize a staff member who has demonstrated outstanding leadership in motivating and empowering others.

JOAN E. FOLEY QUALITY OF STUDENT EXPERIENCE AWARD

A \$1,000 award given to a student, alumnus/a, administrative staff or faculty member who has made a significant contribution to improving the quality of academic or extra-curricular student life on campus.

LUDWIK AND ESTELLE JUS MEMORIAL HUMAN RIGHTS PRIZE

A \$1,500 prize recognizing positive and lasting contributions to education and action in the fight against discrimination. Nominations are open to faculty, staff and students.

NORTHROP FRYE AWARDS

In recognition of distinguished achievements linking teaching and research, a \$2,000 prize will be awarded to a faculty member and \$6,000 to a department or division.

VIVEK GOEL FACULTY CITIZENSHIP AWARD

This award, of up to \$2500, will recognize a faculty member who has served the University of Toronto with distinction in multiple leadership capacities. Candidates will be evaluated on how they have contributed to the betterment of the institution through different spheres of engagement including committees, governance bodies, and external organizations complementary to the university's academic mission. Individuals currently serving in major administrative roles are not eligible. Sitting faculty governors are eligible, but individuals currently serving in major administrative roles are not eligible.

THE DEADLINE FOR SUBMISSIONS FOR IS
5:00 PM ON THURSDAY, FEBRUARY 12, 2009.
AWARDS CEREMONY: MONDAY, MAY 4, 2009.

For forms and additional information on these awards, please visit www.alumni.utoronto.ca or contact Satpal McCaughey in the Division of University Advancement at 416-946-8668 or satpal.mccaughey@utoronto.ca



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Psychologist providing individual and couples therapy. Work stress, anxiety, depression, personal and relationship concerns and problems with eating, weight and body image. U of T benefits apply. Dr. Sarah Maddocks, 114 Maitland Street (Wellesley and Jarvis). 416-972-1935 ext.3321. smaddocks@sympatico.ca Sarah Maddocks

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Miscellany

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A public forum presented by the Faculty of Arts and Science and the Arts and Science Students' Union at the University of Toronto

What is the relationship between tuition levels and access to post secondary education?

How should our financial aid system or tuition structure be changed to improve access?

How do we ensure that qualified students with the greatest need are able to go to university?

Panelists include:

Ian Clark

School of Public Policy and Governance, University of Toronto
Former President of the Council of Ontario Universities

Ken Norrie

Vice-President, Research, Higher Education Quality Council of Ontario
Former Provost and Vice-President, Academic, McMaster University

Moderated by:

Miriam Diamond

Chair, Faculty of Arts and Science Council

Wednesday, January 28, 2009 Room 2102, Sidney Smith Hall
3 - 5 p.m. 100 St. George Street

All students, faculty and staff are welcome.
For details, visit www.artsci.utoronto.ca/main



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LECTURES

Enabling Enhanced Communications and Commerce.
Thursday, January 15

Prof. Barry Wellman, sociology, on Netting Together: Social Networks Meet Computer Networks; Prof. Mark Fox, mechanical and industrial engineering, on Spending Together: Commerce in a Socially Networked World. 1130 Baha Centre for Information Technology. 4:10 p.m. *Knowledge Media Design Institute*

The Human Factor
Wednesday, January 21

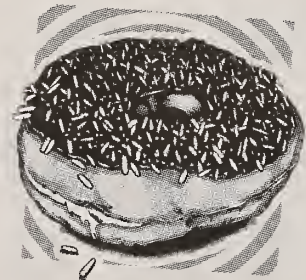
Prof. Kim Vicente, mechanical and industrial engineering; 2009 Graham lecture. 140 University College. 4:30 p.m. *University College*

Palaikastro: Minoan Town Without a Palace?
Wednesday, January 21

Prof. Carl Knappett, art. Chapel, Victoria College. 5:15 p.m. *Archaeological Institute of America, Toronto Society*

Luis Jerónimo de Oré, OFM, and the Politics of Translation in Early Colonial Peru.
Wednesday, January 28

Prof. Alan Durston, York University. Senior Common Room, Burwash Hall, Victoria University, 89 Charles St. W. 4 p.m. *Reformation & Renaissance Studies and Toronto Renaissance & Reformation Colloquium*



SEMINARS

Ethical Reflexivity in Community-Based Research: Unpacking the Implications of Engaging Community Members as Co-researchers.

Wednesday, January 14
 Prof. Sarah Flicker, York University; Adrian Guta, Dalla Lanna School of Public Health; and Brenda Roche, Wellesley Institute. 208 Health Sciences Building. 1:30 p.m. *Qualitative Inquiry Group*

Multiple Embryo Transfer: What It Is, Why It Matters and What's Being Done to Meet the Challenge.
Wednesday, January 14

Shawn Winsor, Trillium Health Centre. Philippa Harris Bioethics Library, 88 College St. 4 to 5:15 p.m. *Bioethics*

Attainments, Eclipses and Disciplinary Renewal in International Human Rights Law: A Critical Overview.
Thursday, January 15

Prof. Obiora Chinedu Okafor, Osgood Hall Law School. Solarium, Falconer Hall, 84 Queen's Park Cres. 12:30 to 2 p.m. *Law*

NSF Co-operates With Highwire
to Control Synapse Development
Friday, January 16

Prof. Bryan Stewart, biology, U of T Mississauga. 432 Ramsay Wright Building. 2 p.m. *Cell & Systems Biology*

Catholic Reform in 16th-Century Scotland? Signs of a Pre-Reformation Reformation and an Earlier Early Modern Period.
Friday, January 16

Mairi Cowan, CRRS fellow. 205 Northrop Frye Hall. 3:30 to 5 p.m. *Reformation & Renaissance Studies*

BMP, HH and WNT Signalling and the Origins of Renal Malformation.
Monday, January 19

Prof. Norman Rosenblum, pediatrics. 2172 Medical Sciences Building. 4 p.m. *Laboratory Medicine & Pathobiology*

Confidentiality and Reproductive Services: The Social Purpose of Medicine in the Latin American Case Law.
Wednesday, January 21

Martin Hevia, Torcuato Di Tella University, Buenos Aires. Philippa Harris Bioethics Library, 88 College St. 4 to 5:15 p.m. *Bioethics*

Environmental Health Justice.
Thursday, January 22

Profs. Blake Poland, public health sciences, and Cheryl Teelucksingh, Ryerson University. 257 University College. 1:15 to 2:45 p.m. *Urban Health Initiatives*

Confronting Chronic Pollution: Environmental Justice for the Aamjiwnaang First Nation.
Thursday, January 22

Prof. Dayna Scott, Osgoode Hall Law School. 108 Health Sciences Building, 155 College St. *Environment*

Why Forensic Examinations Are Inherently Biased and What Can Be Done About It.
Friday, January 23

Itiel Dror, University of Southampton, U.K. 250 Leslie Dan Pharmacy Building. 12:30 to 2 p.m. *Forensic Science & Medicine*

Synapse Evolution and the Emergence of Plasticity and Behaviour.
Friday, January 23

Prof. Seth Grant, Sanger Institute, U.K. 250 Leslie Dan Pharmacy Building. 2 p.m. *Cell & Systems Biology and Program in Neuroscience*

Machiavelli and Savonarola Reconsidered.
Friday, January 23

Prof. Mark Jurdjevic, University of Ottawa. 205 Northrop Frye Hall. 3:30 to 5 p.m. *Reformation & Renaissance Studies*

Ancient Goods.
Monday, January 26

Prof. Brad Inwood, classics. 200 Larkin Building, 15 Devonshire Place. 3 to 5 p.m. *Ethics*

Regulation of Early Heart Development in the Zebrafish Embryo.
Monday, January 26

Ian Scott, Hospital for Sick Children. 2172 Medical Sciences Building. 4 p.m. *Laboratory Medicine & Pathobiology*

Issues in Research Ethics and Aging.
Wednesday, January 28

Prof. Michael Gordon, medicine. Ste. 106, 222 College St. noon to 1:30 p.m. *Life Course & Aging*

Values and Priority Setting in the Home Care Sector in Ontario.
Wednesday, January 29

Michele Kohli, HCTP doctoral fellow alumna, speaker; Prof. Ross Upshur, bioethics, discussant; Karen LeGrove, HCTP doctoral fellow, nursing, moderator. 618 Health Sciences Building, 155 College St. 3 to 5 p.m. *Health Care, Technology & Place*



MUSIC

FACULTY OF MUSIC
EDWARD JOHNSON BUILDING
Thursdays at Noon.
Thursday, January 15

John Rudolph, percussion; Kathleen Rudolph, flute; Theresa Rudolph-Koczo, viola. Walter Hall. 12:10 p.m.

New Music Festival.
Tuesday, January 20

Student composer concert: works by graduate student composers, including the presentation of the Karen Kieser Prize in Canadian Music. Walter Hall. 7:30 p.m.

Wednesday, January 21

Sound exploration: a concert of electroacoustic music; curated by Mark Nerenberg. Walter Hall. 12:10 p.m.

Student composer concert. Walter Hall. 7:30 p.m.

Thursday, January 22

Legacy of Karlheinz Stockhausen (1928-2007), lecture-presentation with performance of selected works. Walter Hall. 12:10 p.m.

Nexus: a concert of improvisations by Nexus with guests Phil Nimmons, Pamela Attariwala, Mark Laver and others. Walter Hall. 7:30 p.m.

Friday, January 23

Opera scenes by student composers. Walter Hall. 12:10 p.m.

Student composer concert. Walter Hall. 7:30 p.m.

Wind Ensemble.
Saturday, January 24

Gillian MacKay, conductor. MacMillan Theatre. 7:30 p.m. Tickets \$14, students and seniors \$10.

HART HOUSE THEATRE
Jerry Springer — The Opera.
Friday and Saturday,
January 16 and January 17
Wednesdays to Saturdays
January 21 to January 31

Music by Richard Thomas; book and lyrics by Stewart Lee and Richard Thomas; directed by Richard Ouzounian. Canadian premiere. Hart House Theatre. Performances at 8 p.m.

FILM

And Justice for All.
Thursday, January 22

Film, *And Justice for All*; speaker, Justin Peacock, author of *A Cure for Night*; Law, Ethics and Film series. Rowell Room, Flavelle House, Faculty of Law, 78 Queen's Park. 6 to 8 p.m. Advance registration required: Tabitha Keast, ms.keast@gmail.com by Jan. 16. *Jackman Humanities Institute and Law*



EXHIBITIONS

JUSTINA M. BARNICKE GALLERY
HART HOUSE
James Carl: Do You Know What To January 25

Works by Toronto-based artist James Carl, highlighting the artist's preoccupation with the normal, the moral and the all-too-common. Both galleries. Gallery hours: Monday to Friday, 11 a.m. to 7 p.m.; Saturday and Sunday, 1 to 4 p.m.

DORIS MCCARTHY GALLERY
U OF T SCARBOROUGH
ImagiNation: New Cultural Topographies.
January 14 to March 1

This exhibition features works by a diverse range of contemporary Canadian artists whose works express some of the complexities of contemporary Canadian identity. Gallery hours: Tuesday to Friday, 10 a.m. to 4 p.m.; Sunday, noon to 5 p.m.

BLACKWOOD GALLERY
U OF T MISSISSAUGA
The Way I Are.
January 21 to March 1

Works by Valerie Blass, Anthony Burnham, Robert Fones, Martin Golland, Jen Hutton, Kelly Jazvac, John Massey, Elizabeth McIntosh, Planningtonrock and Tony Romano; curated by Katie Bethune-Leaman. Gallery hours: Monday to Friday, 11 a.m. to 5 p.m.; Sunday, 1 to 5 p.m.

ERIC ARTHUR GALLERY
JOHN H. DANIELS FACULTY OF ARCHITECTURE, LANDSCAPE & DESIGN
Wes Jones:
Works From El Segundo
January 22 to April 18

The exhibition surveys designs by the acclaimed practice of Jones, Partners: Architecture. Projects selected from the last decade explore future possibilities for single and multi-unit

CALL FOR NOMINATIONS

ACADEMIC BOARD OF THE GOVERNING COUNCIL

Nominations Open:

Friday January 9, 2009 at 12:00 noon

Nominations Close:

Friday January 23, 2009 at 12:00 noon

Positions Available:
Librarian

3-year term from July 1, 2009 to June 30, 2012:

- 1 seat

Teaching Staff

3-year term from July 1, 2009 to June 30, 2012:

- Applied Science and Engineering: 1 seat
- Arts and Science: 5 seats
- Dentistry: 1 seat
- Forestry: 1 seat
- Medicine: 3 seats
- Music: 1 seat
- OISE: 1 seat
- Pharmacy: 1 seat
- UTM: 1 seat
- UTSC: 1 seat

NOTE: Multi-departmental faculties have agreed that no more than one teaching staff member may be elected to the Academic Board from any one department.

Nomination Forms will be available beginning 12:00 noon, Friday January 9, 2009 at:

- www.governingcouncil.utoronto.ca/elections.htm
- Office of the Governing Council
Simcoe Hall, 27 King's College Circle, Room 106

Work of the Academic Board:

The Academic Board of the Governing Council is composed of 117 members, 48 of whom are elected teaching staff.

The Board is responsible for approving:

- Admissions and awards policies
- Establishment of new academic programs
- Establishment, termination or restructuring of academic units
- Academic appointments policy
- Budget guidelines and annual budgets
- Capital plans and projects
- Curriculum and academic regulations
- Academic discipline
- Research policy

The membership of the Governing Council should reflect the diversity of the University. Nominations are encouraged from a wide variety of individuals.

Questions? Please contact:

Nancy Smart, Chief Returning Officer at:
nancy.smart@utoronto.ca or 416-946-7663

or

Mae-Yu Tan, Deputy Returning Officer
maeyu.tan@utoronto.ca or 416-978-8794

or

Alison Webb, Deputy Returning Officer
alison.webb@utoronto.ca or 416-978-8427

Further information, including the *Elections Guidelines, 2009* can be found at:

www.governingcouncil.utoronto.ca/elections.htm

housing at a variety of scales. Included are models, drawings, renderings and spreads from the latest J.P.A. monograph. Hours: Monday to Friday, 11 a.m. to 7 p.m.; Saturday, noon to 5 p.m.

U OF T ART CENTRE Dry as Dust? 18th and 19th Century Art January 27 to March 14

This exhibition highlights academic and genre painting from the UC and U of T collections and shows that such works still have much to offer. Laidlaw Wing, University College. Hours: Tuesday to Friday, noon to 5 p.m.; Saturday, noon to 4 p.m.

COMMITTEES

CHAIR, DEPARTMENT OF POLITICAL SCIENCE

A search committee has been established in the Faculty of Arts & Science to

recommend a chair of the Department of Political Science. Members are: Professors Meric Gertler, dean, Faculty of Arts & Science (chair); Susan Howson, vice-dean (undergraduate education and teaching), Faculty of Arts & Science; Graham White, political science, U of T Mississauga; Grace Skogstad, social sciences, U of T Scarborough; Arthur Hosios, economics; and Janice Gross Stein, Melissa Williams, Linda White and Joe Wong, political science; and Rita O'Brien, administrative staff, political science; Charmaine Stanley, graduate student, political science; and Vera Melnyk, office of the dean, Faculty of Arts & Science (secretary).

The committee would appreciate receiving nominations and/or comments from interested persons of the university community. These should be submitted by Jan. 15 to Professor Meric Gertler, dean, Faculty of Arts & Science, Room 2005 Sidney Smith Hall.

**Winter Carnival
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Time: 12:00 - 1:00 PM
Place: UofT Faculty Club / Card Room



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Checking in: It's second year!

Author of Frosh Diary updates us on her university career

BY BEA PALANCA

It is the beginning of the winter term of my second year here at the university.

I have moved on from being a freaked-out freshman to a second-year student who is sounder in her work. I make it a point not to scream in panic anymore (remember my days of "Ahhhh!").

In the last Frosh Diary entry, I wrote of attending summer school. And boy did I change my mind about that. First I dropped the French course, intent on keeping linguistics, but then found that being in school during the summer was not for me.

I decided to explore other opportunities outside of class; I became heavily occupied with my tasks and duties as publicist and assistant stage manager for *Baggage*, a Pulang Maleta Collective entry into the Toronto Fringe Theatre Festival, so I was able to experience the theatre again.

That job took me more outside of my comfort zone than many classes in French did; it asked me to be as extroverted as I possibly could at times and to keep positivity in my thoughts as I prayed for interview requests and good audience turnout.

The summer was a great time for new feats: selected as one of seven other participants in an arts-based program for young Filipina artists, I became part of CLUTCH, through the Kapisanan Philippine Centre for Arts and Culture (www.kapisanan-centre.com). I didn't think I would be chosen to participate in such an exciting program! I see this program as a way to get back to my roots, my culture, sans the trip back to the Philippines. As I explore different artistic media, from drawing to printmaking, dance and music, CLUTCH has enabled me to play. What recess does for an eight-year-old, CLUTCH does for me. What's more, it is an avenue for me to connect with great Filipino artists who have made their art their profession.

In September, as school came a-creepin' back into students' lives, I was truthfully glad for the change that had come. I had the feeling that the summer had gone on for too long, almost! Four months away from school was enough for me.

I was set on focusing on school but one more surprise was in store for me. As I had already let go of the idea of being involved in two projects outside of school, it amazed me when I found out that I was selected as one of six playwrights for the Play Creation program at Carlos Bulosan Theatre (www.carlosbulosan.com). I couldn't believe it. I thought it funny, as I had journeyed to campus to use



within and outside of school, because I know that I am able to do fine in my studies. No blinders for me, thank you.

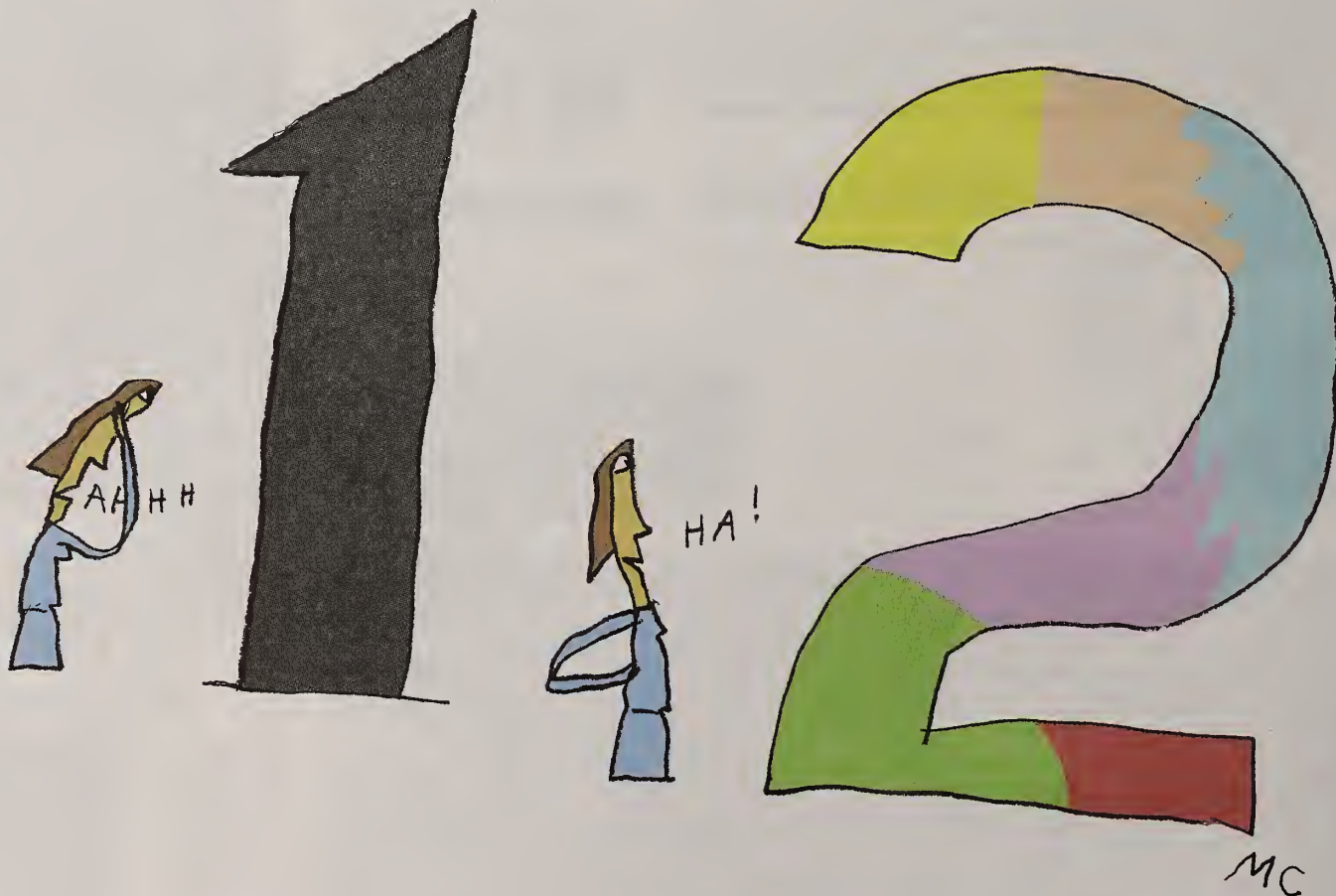
Competing with classmates isn't very helpful either. I'd rather we help one another because that way we build better relationships and ultimately enjoy class more often than not. Just ask the other girls I giggle with in French lecture. We make one another *fait attention* in class, ultimately to help each other out. What one may miss, the other will remember.

As well, even if I am there to simply sit and listen, attending

Now, it is really back to work again.

I am setting my eyes on bigger goals. With the final exhibition for CLUTCH in mid-February at Rolly's Garage and Carlos Bulosan Theatre's Flipside Festival at the end of February, I know my work is cut out for me. I am the marketing manager for the CLUTCH exhibition and writing my play entitled *Sana*, all while I maintain and improve my schoolwork for this term.

Here comes my cross-continental endeavour: to study abroad next year, specifically in France. I have yet to look at all the details but I would jump at the chance to experience the culture whose native tongue I have been studying all these years. Moreover, I wish to immerse myself in the



MIKE CONSTABLE

a school computer to submit my application for the program on the day of the deadline. What then if I hadn't taken the chance? I don't want to think about it!

But back to school: I can honestly say that I am enjoying this year more than I enjoyed first year. I know better how I can work successfully and more efficiently. I've regained some confidence I shed in first year. I ask questions even when I am only 20 percent unsure and try to obtain the information I need in class.

Coming upon many realizations is what this year has been about. Post-secondary education is not a race to finish first; the race is only with me. I would rather take the time to finish, meanwhile jumping on opportunities

class does help. I listen better than I take notes sometimes and in most cases the notes are eventually posted on Blackboard anyway!

Although it is common knowledge that it is safest to start early, it seems the hardest lesson to put into action. I know it is for me. I can't get enough of the free time I get; in turn I find myself procrastinating just so I can relax a little bit.

Lastly, I must stress that there is life outside the classroom (even the University of Toronto homepage tells us about it)! I have one, and fellow students, if you are not living it, you'd better go and find it, no, establish it. Make your life outside of your studies. The way I see it, interpersonal skills complete the package.

language, where I would have to ask for directions, grocery shop, and take transit, all in French! I feel it is the best idea for me and I am more than glad that the university encourages its students to study abroad.

I plan to keep doing as I do: to hone my skills and my craft, to do well in school, to build and reinforce my network, to make connections and establish relationships. Second year so far has done me well and I wish to do it better.

Off to class. *À la prochaine.*

Bea Palanca is a second-year University College student studying French. She shared her frosh year experiences with Bulletin readers last year in instalments of Frosh Diary.